

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

LD0009	Overall LMA Rating	Total LMA Miles						
Levee District No. 0009 (Sutter County)	M	6.24						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments	0.01		0.01	0.16%	0.54	0.01		
Animal Control		0.23	0.92	14.74%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.07	0.02		
<i>LMA Totals:</i>	0.01	0.23	0.93	14.90%	0.61	0.03	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Levee District No. 0009 (Sutter County)

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Levee District No. 0009 (Sutter County)

Waterway			Bank	Unit Miles
Unit No. 01 Sutter County, Feather River			Right	6.24
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/23/2013 - 04/23/2013		10/01/2013 - 10/01/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By	David Schmidl LD 9 Sutter			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River					Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End					Start	End	
1			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	4
DWR ID: DWR_LD0009_01_s_2013_4									
2			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	5
DWR ID: DWR_LD0009_01_s_2013_5									
3			Earthen Levee	Flood Preparedness & Training	WS A Ma		°	°	6
DWR ID: DWR_LD0009_01_s_2013_6									
4	0.00	0.00	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:9595 EP_NO: 3823 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need better gas-line markings at levees. FIELD_STRUCT_DESC: 8-5/8-inch fuel line along the landward shoulder, 2.6 feet below the crown. Gasline marker on LS shoulder FS Date: 3/1/2013	39.168906 °	-121.622629 °	1 Y
DWR ID: DWR_LD0009_01_f_2013_1									
5	0.00	0.00	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:9592 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need better gas-line markings at levees. FIELD_STRUCT_DESC: 8-5/8-inch fuel line through the levee. Sign on LS between railroad and end of LD1 puts alignment on west side of RR tracks. FS Date: 3/1/2013	39.168909 °	-121.622629 °	3 Y
DWR ID: DWR_LD0009_01_f_2013_3									
6	0.00	0.94	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: District has burned waterward side of levee but has yet to knock down the tall weeds/grass that was not taken care of by burning.	°	°	20 Y
DWR ID: DWR_LD0009_01_f_2013_20									
7	0.03	0.03	Supplemental	DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:9594 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: gas lines need to be better marked in this area as they are only 2.6-feet below crown. FIELD_STRUCT_DESC: 8-5/8-inch diameter fuel line along the landward shoulder, 2.6 feet below the crown. FS Date: 3/1/2013	39.169339 °	-121.622616 °	8
DWR ID: DWR_LD0009_01_f_2013_8									

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
8	0.08	0.08	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9596 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need better gas-line markings at levees. FIELD_STRUCT_DESC: 16-inch gas line through the levee, 3.5 feet below the crown. Marker on LS toe. FS Date: 3/1/2013	39.170153 ° -121.622546 ° 39.170153 ° -121.622546 °		9 Y
DWR ID: DWR_LD0009_01_f_2013_9										
9	0.88	0.88	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.181568 ° -121.620911 ° 39.181568 ° -121.620911 °		19 Y
DWR ID: DWR_LD0009_01_f_2013_19										
10	0.95	0.95	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9598 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe needs to be removed from levee crown. FIELD_STRUCT_DESC: 3-inch steel pipe through the levee at LS crown elevation. FS Date: 3/1/2013	39.182607 ° -121.620775 ° 39.182607 ° -121.620775 °		13 Y
DWR ID: DWR_LD0009_01_f_2013_13										
11	1.32	1.32	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:9601 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine type of abandonment. FIELD_STRUCT_DESC: *Abandoned* 10-inch steel pipe through the levee, 2.8 feet below the crown. Waterward end open. Steel plate welded on landward end. Pump and standpipe at the landward toe. FS Date: 3/1/2013	39.187995 ° -121.620706 ° 39.187995 ° -121.620706 °		14 Y
DWR ID: DWR_LD0009_01_f_2013_14										
12	1.87	1.87	Supplemental	DWR UCIP Field Study	LS	U En	Inspector Comments: FS_ID:9602 EP_NO: 1119 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe needs to be repaired or properly abandoned. FIELD_STRUCT_DESC: 16-inch steel pipe through levee, 3.0 feet below crown. Pump in pump house on channel bank. Gate valve on the waterward end. Concrete standpipe and distribution box at the landward toe. (Permit No. 1119, 06/08/1946) FS Date: 3/1/2013	39.195241 ° -121.624165 ° 39.195241 ° -121.624165 °		16 Y
DWR ID: DWR_LD0009_01_f_2013_16										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	2.55	2.55	Supplemental	DWR UCIP Field Study	WS	U En	Inspector Comments: FS_ID:9604 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned as pump is disconnected and open on waterside. Pipe should be properly abandoned. FIELD_STRUCT_DESC: 18-inch steel pipe through levee, 8 feet below crown Pump and gate valve in pump house on channel bank. Concrete well on the bank. Siphon breaker in CMP riser on landward slope. (O+M 1955) FS Date: 3/1/2013	39.203936 ° 39.203936 °	-121.629521 ° -121.629521 °	17 Y
DWR ID: DWR_LD0009_01_f_2013_17										
14	2.70	2.70	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	39.206053 ° -121.629748 °	39.206053 ° -121.629748 °	21 Y
DWR ID: DWR_LD0009_01_f_2013_21										
15	2.96	3.12	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.209192 ° -121.629312 °	39.211152 ° -121.628738 °	2 Y
DWR ID: DWR_LD0009_01_s_2012_2										
16	3.05	3.06	Earthen Levee	Encroachments	LS	M En	FE : Fence	39.211052 ° -121.628851 °	39.211228 ° -121.628808 °	7 Y
DWR ID: DWR_LD0009_01_s_2012_7										
17	3.10	3.30	Earthen Levee	Animal Control	WS	U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	° °	° °	22 Y
DWR ID: DWR_LD0009_01_f_2013_22										
18	3.49	3.49	Supplemental	DWR UCIP Field Study	WS	M En	Inspector Comments: FS_ID:9606 EP_NO: 13657 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs flapgate on WS outlet. Pump is missing. FIELD_STRUCT_DESC: 20-inch pipe through levee, 2 feet below levee crown. Siphon breaker on waterward shoulder. Pump with trash rack at landward toe. (Permit No. 13657 - Micheli) FS Date: 3/1/2013	39.217363 ° 39.217363 °	-121.628434 ° -121.628434 °	18 Y
DWR ID: DWR_LD0009_01_f_2013_18										
19	4.27	4.27	Earthen Levee	Encroachments	LS	M En	PR : Prunings	39.228589 ° -121.629732 °	39.228589 ° -121.629732 °	23 Y
DWR ID: DWR_LD0009_01_f_2013_23										
20	4.33	4.33	Earthen Levee	Encroachments	LS	M En	AT : Agricultural tilling	39.229507 ° -121.629780 °	39.229507 ° -121.629780 °	15 Y
DWR ID: DWR_LD0009_01_f_2013_15										
21	4.69	4.69	Earthen Levee	Animal Control	WS	U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.234343 ° -121.632200 °	39.234343 ° -121.632200 °	10 Y
DWR ID: DWR_LD0009_01_f_2013_10										
22	5.68	6.02	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.247695 ° -121.637316 °	39.252631 ° -121.636970 °	12 Y
DWR ID: DWR_LD0009_01_s_2012_12										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sutter County, Feather River						Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
23	5.68	5.68	Earthen Levee	Encroachments	WS	U En	BU : Building	39.247697 ° -121.637312 °	39.247697 ° -121.637312 °	11 Y
								DWR ID: DWR_LD0009_01_s_2012_11		
24	5.76	5.76	Earthen Levee	Animal Control	WS	U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.248868 ° -121.637232 °	39.248868 ° -121.637232 °	24 Y
								DWR ID: DWR_LD0009_01_f_2013_24		
25	6.14	6.14	Earthen Levee	Animal Control	LS	U Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.254369 ° -121.636531 °	39.254369 ° -121.636531 °	25 Y
								DWR ID: DWR_LD0009_01_f_2013_25		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Marker on LS shoulder.

UCIP_5727.jpg



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Sign between railroad and LD 1 puts alignment on west side of railroad tracks.

UCIP_5726.jpg



Levee Mile Report Line	6
Start Levee Mile	0.00
End Levee Mile	0.94
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Photo taken from the crown looking south at the vegetation on the waterward slope of the levee.

mhoffman_f_20131002_645.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	8
Start Levee Mile	0.08
End Levee Mile	0.08
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Gasline marker at LS toe.

UCIP_5729.jpg



Levee Mile Report Line	9
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Photo taken looking north at a pruning pile stacked on the levee slope at the landward toe.

mhoffman_f_20131002_644.JPG



Levee Mile Report Line	10
Start Levee Mile	0.95
End Levee Mile	0.95
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe at crown on LS shoulder.

UCIP_5731.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	11
Start Levee Mile	1.32
End Levee Mile	1.32
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Abandoned Pump platform on LS toe.

UCIP_5733.jpg



Levee Mile Report Line	12
Start Levee Mile	1.87
End Levee Mile	1.87
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Concrete and CMP riser on LS toe.

UCIP_5735.jpg



Levee Mile Report Line	13
Start Levee Mile	2.55
End Levee Mile	2.55
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Pipe and pumphouse on WS toe/bench.

UCIP_5740.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	15
Start Levee Mile	2.96
End Levee Mile	3.12
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Concrete lined ditch at L/S levee toe.

mhoffman_f_20130917_002.JPG



Levee Mile Report Line	16
Start Levee Mile	3.05
End Levee Mile	3.06
Location	Land Side
Category	Earthen Levee
Item	Encroachments

L/S fence along levee toe.

mhoffman_f_20130917_003.JPG



Levee Mile Report Line	17
Start Levee Mile	3.10
End Levee Mile	3.30
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Photo taken looking south from the toe of the levee at rodent holes on the waterward slope.

mhoffman_f_20131002_646.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	18
Start Levee Mile	3.49
End Levee Mile	3.49
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

LS at trash rack and pumping plant.

UCIP_5745.jpg



Levee Mile Report Line	21
Start Levee Mile	4.69
End Levee Mile	4.69
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Photo taken from the levee crown looking east down the waterward slope at rodent holes.

mhoffman_f_20131002_647.JPG



Levee Mile Report Line	22
Start Levee Mile	5.68
End Levee Mile	6.02
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Agricultural ditch at landside toe.

mhoffman_f_20130917_005.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	---	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Levee District No. 0009 (Sutter County)

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter County, Feather River	Right	6.24	10/01/2013 10/01/2013	Matthew Hoffman

Levee Mile Report Line	23
Start Levee Mile	5.68
End Levee Mile	5.68
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Building at the waterside toe.

mhoffman_f_20130917_004.jpg



Levee Mile Report Line	24
Start Levee Mile	5.76
End Levee Mile	5.76
Location	Water Side
Category	Earthen Levee
Item	Animal Control

Photo taken from levee crown looking down waterward slope at rodent holes.

mhoffman_f_20131002_648.JPG



Levee Mile Report Line	25
Start Levee Mile	6.14
End Levee Mile	6.14
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Photo taken from levee crown looking west down landward slope at rodent holes.

mhoffman_f_20131002_649.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement